

RAW SEQUENCE LISTING PATENT APPLICATION US/09/001,737

DATE: 10/06/98 TIME: 15:05:39

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This Raw Listing contains the General Information Section and up to the first 5 pages.

1	SEQUENCE LISTING ENTEREL
2 3	(1) General Information:
4	
5	(i) APPLICANTS: Mizzen, Lee
6	Wisniewski, Jan
7	
8	(ii) TITLE OF INVENTION: STREPTOCACCAL HEAT SHOCK PROTEINS OF THE
9 10	HSP60 FAMILY
11	(iii) NUMBER OF SEQUENCES: 91
12	(III) NOMBER OF BEQUEROES. FI
13	(iv) CORRESPONDENCE ADDRESS:
14	(A) ADDRESSEE: SEED and BERRY LLP
15	(B) STREET: 701 Fifth Avenue, 6300 Columbia Center
16	(C) CITY: Seattle
17	(D) STATE: Washington
18	(E) COUNTRY: USA
19	(F) ZIP: 98104
20	(m) COMPUMED DEADART MODIL
21 22	(V) COMPUTER READABLE FORM: (A) MEDIUM TYPE: Floppy disk
23	(B) COMPUTER: IBM PC compatible
24	(C) OPERATING SYSTEM: PC-DOS/MS-DOS
25	(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
26	(-,
27	(vi) CURRENT APPLICATION DATA:
28	(A) APPLICATION NUMBER: US 09/001,737
29	(B) FILING DATE: 31-DEC-1997
30	(C) CLASSIFICATION:
31	(iii) AMMODNEY (AGENM TNEODYAMTON)
32 33	(viii) ATTORNEY/AGENT INFORMATION: (A) NAME: Sharkey, Richard G.
34	(A) NAME: SHAIREY, RICHAID G. (B) REGISTRATION NUMBER: 32,629
35	(C) REFERENCE/DOCKET NUMBER: 870109.408
36	(o) hardhand, bookar honadh o'i to'i to'i to'i to'i to'i to'i to'i
37	(ix) TELECOMMUNICATION INFORMATION:
38	(A) TELEPHONE: (206) 622-4900
39	(B) TELEFAX: (206) 682-6031
40	
41	
42	(2) INFORMATION FOR SEQ ID NO:1:
43	(i) CHOURNOR OURDAGEDICHTOC.
44 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1665 base pairs
46	(A) LENGTH: 1665 base pairs (B) TYPE: nucleic acid
40	(D) TIPE. NUCLEIC ACTO

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	7 (C) CMDANDEDNESS, circle													II	NPUT	SET:	528900.raw
47	• • • • • • • • • • • • • • • • • • • •																
48	(D) TOPOLOGY: linear																
49																	
50																	
51																	
52		(ix) FE	ATURI	⊡:												
53			,		AME/I	KEY:	CDS										
54			•	•	CAT:			1649	9								
55			, ,	J, <u>J</u> ,		-011.	10.										
56																	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:																
57		(XI) SE	SOFM	SE DI	SOCK.	IPTI	JN: :	SEQ.	LD M):1:						
58						~~~	~~~		~.~	~m.		mm ~	~~~		~~~	~~=	
59	GAA'	PTCGC	3CT 1	ICAT								TTC					50
60						Ala	Ala	Lys	Asp	Val	Lys	Phe	GTA		Asp	Ala	
61					1				5					10			
62																	
63												GCA					98
64	Arg	Val	Lys	Met	Leu	Arg	Gly	Val	Asn	Val	Leu	Ala	Asp	Ala	Val	Lys	
65			15					20					25				
66																	
67	GTT	ACC	CTC	GGC	CCA	AAA	GGC	CGT	AAC	GTA	GTT	CTG	GAT	AAA	TCT	TTC	146
68	Val	Thr	Leu	Gly	Pro	Lys	Gly	Arg	Asn	Val	Val	Leu	Asp	Lys	Ser	Phe	
69		30		-		-	35	_				40	-	-			
70																	
71	GGT	GCA	CCG	ACC	ATC	ACT	AAA	GAT	GGT	GTT	TCC	GTA	GCA	CGT	GAA	ATC	194
72												Val					
73	45					50	-3-		1		55			5		60	
74																•	
75	GAA	CTG	GAA	GAC	ΔAG	ጥጥር	GAA	AAC	ΔТС	CCT	aca	CAG	ΔТС	стс	λλλ	GAA	242
76												Gln					242
77	GIU	пеа	GIG	ASP	65	File	GIU	ASII	мес	70	AIG	GIII	Mec	Val	75	GIU	
78					0,5					70					, ,		
76 79	amm	000	mam		000		0.0	aam	aas	aam	a.a	aam	3.00	3.00		a a.	200
												GGT					290
80	vaı	АТа		_	АТа	ASN	Asp	АТа		GTA	Asp	Gly	Thr		Thr	Ата	
81				80					85					90			
82																	
83												CTG					338
84	Thr	Val		Ala	GIn	Ser	Ile		Thr	GLu	СТĀ	Leu	_	A⊥a	Val	A⊥a	
85			95					100					105				
86																	
87												ATC					386
88	Ala	Gly	Met	Asn	Pro	Met	Asp	Leu	Lys	Arg	Gly	Ile	Asp	Lys	Ala	Val	
89		110					115					120					
90																	
91	GCT	GCT	GCT	GTT	GAA	GAA	CTG	AAA	GCA	CTG	TCC	GTA	CCG	TGC	TCC	GAC	434
92	Ala	Ala	Ala	Val	Glu	Glu	Leu	Lys	Ala	Leu	Ser	Val	Pro	Cys	Ser	Asp	
93	125					130		-			135			-		140	
94																	
95	TCT	AAA	GCT	ATT	GCT	CAG	GTT	GGT	ACC	ATC	TCC	GCT	AAC	TCC	GAC	GAA	482
96												Ala					
97		-1-			145			1		150					155		
98					- 10										100		
99	ACC	CITIA	COM	A A A	פייים	λጥሮ	CCT	CAA	aca	አጥጣ	GAG	AAA	CTC	CCT	***	CAA	530
,,	ACC	GIA	991	AAA	C13	AIC	GC 1	GAA	303	AIG	GAC	MAM	GIC	331	AAA	GAA	330

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														IN	PUT	SET:	S28966.raw
100	Thr	Val	Gly	Lys	Leu	Ile	Ala	Glu	Ala	Met	Asp	Lys	Val	Gly	Lys	Glu	
101			_	160					165		_	_		170	_		
102																	
103	GGC	GTG	ATC	ACC	GTT	GAA	GAC	GGT	ACC	GGT	CTG	CAG	GAC	GAA	CTG	GAC	578
104	Gly	Val	Ile	Thr	Val	Glu	Asp	Gly	Thr	Gly	Leu	Gln	Asp	Glu	Leu	Asp	
105			175					180					185				
106																	
107														CCT			626
108	Val	Val	Glu	Gly	Met	Gln	Phe	Asp	Arg	Gly	Tyr	Leu	Ser	Pro	Tyr	Phe	
109		190					195					200					
110																	
111														CCG			674
112		Asn	Lys	Pro	GLu		СТĀ	Ala	Val	Glu		GLu	Ser	Pro	Phe		
113	205					210					215					220	
114	ama	ama	aam	a. a			.	maa		3.00	~~~	a. .	. ma	ama	999	amm	700
115														CTG			722
116	Leu	Leu	Ата	ASP	-	гÀг	тте	Ser	ASN	230	Arg	GIU	met	Leu	235	vaı	
117 118					225					230					233		
119	CTG	GAA	CCT	СПУ	aca	A A A	CCA	aac	***	ccc	CTG	СТС	አጥሮ	ATC	ССТ	GAA	770
120														Ile			770
121	шси	014	niu	240	AIU	טעם	n_u	O _T y	245	110	БСС	БСС	110	250	AIG	OIU	
122									2.10					200			
123	GAT	GTT	GAA	GGC	GAA	GCG	CTG	GCA	ACT	CTG	GTT	GTT	AAC	ACC	ATG	CGC	818
124														Thr			
125	•		255	•				260					265			_	
126																	
127	GGT	ATC	GTA	AAA	GTC	GCT	GCG	GTT	AAA	GCA	CCT	GGC	TTC	GGC	GAT	CGT	866
128	Gly	Ile	Val	Lys	Val	Ala	Ala	Val	Lys	Ala	Pro	Gly	Phe	Gly	Asp	Arg	
129		270					275					280					
130																	
131														GGT			914
132	_	Lys	Ala	Met	Leu		Asp	Ile	Ala	Thr		Thr	Gly	Gly	Thr		
133	285					290					295					300	
134	» ma	mam	~~	a.a	3 m.a	o a m	N MC	a.a	ama	~ 1 1		aa.	» am	ama.	a	C a m	060
135														CTG			962
136 137	тте	per	GIU	GIU	305	сту	Met	GIU	Leu	310	гуз	ALG	THE	Leu	315	ASP	
138					303					310					313		
139	СТС	GGC	CAG	GCG	ΔΔΔ	CGC	СТТ	СΤΤ	АТС	AAC	ΔΔΔ	САТ	ACC	ACC	ACC	АТС	1010
140														Thr			1010
141		1		320	-1-	5			325		-1-	<u>F</u>		330			
142							•										
143	ATC	GAT	GGC	GTG	GGC	GAC	GAA	GCT	GCA	ATC	CAG	GGT	CGC	GTG	ACT	CAG	1058
144	Ile	Asp	Gly	Val	Gly	Asp	Glu	Ala	Ala	Ile	Gln	Gly	Arg	Val	Thr	Gln	
145		_	335		_	-		340				-	345				
146																	
147														CGT			1106
148	Ile	Arg	Gln	Gln	Ile	Glu	Glu	Ala	Thr	Ser	Asp	Tyr	Asp	Arg	Glu	Lys	
149		350					355					360					
150																	
151														GTT			1154
152	Leu	Gln	Glu	Arg	Val	Ala	Lys	Leu	Ala	Gly	Gly	Val	Ala	Val	Ile	Lys	

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153	365					370					375					380		
154																		
155	GTT	GGT	GCT	GCG	ACT	GAA	GTT	GAA	ATG	AAA	GAG	AAG	AAA	GCC	CGC	GTT	1202	
156	Val	Gly	Ala	Ala	Thr	Glu	Val	Glu	Met	Lys	Glu	Lys	Lys	Ala	Arg	Val		
157					385					390					395			
158																		
159	GAA	GAT	GCC	CTG	CAC	GCT	ACC	CGT	GCT	GCG	GTA	GAA	GAA	GGC	GTG	GTT	1250	
160	Glu	Asp	Ala	Leu	His	Ala	Thr	Arg	Ala	Ala	Val	Glu	Glu	Gly	Val	Val		
161				400					405					410				
162																		
163									CGC								1298	
164	Ala	Gly	Gly	Gly	Val	Ala	Leu	Ile	Arg	Val	Ala	Ser	Lys	Ile	Ala	Gly		
165			415					420					425					
166																		
167									AAC								1346	
168	Leu	Lys	Gly	Gln	Asn	Glu	Asp	Gln	Asn	Val	Gly	Ile	Lys	Val	Ala	Leu		
169		430					435					440						
170																		
171									CAA								1394	
172	_	Ala	Met	Glu	Ser		Leu	Arg	Gln	Ile		Leu	Asn	Cys	Gly			
173	445					450					455					460		
174	~-~	~~~		~		~~~												
175									GTG								1442	
176	GIU	Pro	Ser	vaı		Α⊥а	Asn	Thr	Val	-	АТа	GTĀ	Asp	СТĀ		Tyr		
177					465					470					475			
178	aam	ma a		aam	aa.	3 CIT	CIA 3	a.	mag	000) ma	3 m.a	a.a	N M C	aam	1400	
179 180									TAC								1490	
181	СТУ	ıyı	ASII	480	Ата	THE	GIU	GIU	Tyr 485	СТУ	ASII	мес	тте	490	мес	GIA		
182				400					403					4 7 0				
183	ΔТС	СТС	СУТ	CCA	ACC	ΔΔΔ	GΨA	ልሮሞ	CGT	т <u>С</u> т	сст	CTG	CAG	TAC	aca	CCT	1538	
184									Arg								1550	
185		200	495	1.0	****	Lyo	, u _	500	n. 9	561	ALU	БСС	505	- y -	AIG	AIG		
186			170					500					505					
187	тст	GTT	GCG	GGT	CTG	ATG	ATC	ACC	ACC	GAG	TGC	AТG	GTT	ACC	GAC	стс	1586	
188									Thr									
189		510		1			515				- 4	520			F			
190																		
191	CCG	AAA	GGC	GAT	GCA	CCT	GAC	TTA	GGT	GCT	GCT	GGT	GGT	ATG	GGC	GGC	1634	
192	Pro	Lys	Gly	Asp	Ala	Pro	Asp	Leu	Gly	Ala	Ala	Gly	Gly	Met	Gly	Gly		
193	525	_	_	_		530	_		_		535	_	_		_	540		
194																		
195	ATG	GGC	GGA	ATG	ATG	TGA'	rcaa(GCC (GAAT!	ГC							1665	
196	Met	Gly	Gly	Met	Met													
197					545													
198													•					
199																		
200	(2)	INF	ORMA	rion	FOR	SEQ	ID I	10:2	:									
201																		
202		1	(i) S						rics:									
203									ino a	acids	3							
204							amino											
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	208		(-	, .	"OPE(-006	TYPE: protein												
	209		()	ri) S	SEOUE	ENCE	DESC	CRIPT	TION	: SEC	O I C	NO:	2:						
	210		``	, -															
	211	Met	Ala	Ala	Lvs	Asp	Val	Lys	Phe	Glv	Asn	Asp	Ala	Ara	Val	Lvs	Met		
	212	1			-1-	5		-1-		1	10			5		15			
	213	-				·													
	214	Leu	Ara	Glv	Val	Asn	Val	Leu	Ala	Asp	Ala	Val	Lvs	Val	Thr	Leu	Gly		
	215		5	1	20					25			-2		30		2		
	216																		
	217	Pro	Lvs	Glv	Ara	Asn	Val	Val	Leu	Asp	Lvs	Ser	Phe	Glv	Ala	Pro	Thr		
	218		•	35	,				40	•	•			45					
	219																		
	220	Ile	Thr	Lvs	Asp	Gly	Val	Ser	Val	Ala	Arq	Glu	Ile	Glu	Leu	Glu	Asp		
	221		50	-	•	-		55			-		60				-		
	222		-																
	223	Lys	Phe	Glu	Asn	Met	Gly	Ala	Gln	Met	Val	Lys	Glu	Val	Ala	Ser	Lys		
	224	65					70					75					80		
	225																		
	226	Ala	Asn	Asp	Ala	Ala	Gly	Asp	Gly	Thr	Thr	Thr	Ala	Thr	Val	Leu	Ala		
	227					85		_	-		90					95			
	228																		
	229	Gln	Ser	Ile	Ile	Thr	Glu	Gly	Leu	Lys	Ala	Val	Ala	Ala	Gly	Met	Asn		
	230				100			•		105					110				
	231																		
	232	Pro	Met	Asp	Leu	Lys	Arg	Gly	Ile	Asp	Lys	Ala	Val	Ala	Ala	Ala	Val		
	233			115		-	_	_	120	_	-			125					
	234																		
	235	Glu	Glu	Leu	Lys	Ala	Leu	Ser	Val	Pro	Cys	Ser	Asp	Ser	Lys	Ala	Ile		
	236		130					135					140						
	237																		
	238	Ala	Gln	Val	Gly	Thr	Ile	Ser	Ala	Asn	Ser	Asp	Glu	Thr	Val	Gly	Lys		
	239	145					150					155					160		
	240																		
	241	Leu	Ile	Ala	Glu	Ala	Met	Asp	Lys	Val	Gly	Lys	Glu	Gly	Val	Ile	Thr		
	242					165					170					175			
	243																		
	244	Val	Glu	Asp	_	Thr	Gly	Leu	Gln	Asp	Glu	Leu	Asp	Val		Glu	Gly		
	245				180					185					190				
•	246		_	_			_						_	_					
	247	Met	Gln		Asp	Arg	Gly	Tyr		Ser	Pro	Tyr	Phe		Asn	Lys	Pro		
	248			195					200					205					
	249							_		_	_	_,		_	_		_		
	250	Glu		СТÄ	Ala	Val	GLu	Leu	GLu	Ser	Pro	Phe		Leu	Leu	Ala	Asp		
	251		210					215					220						
	252	_	_			_		_			_	_		_					
	253	-	Lys	Ile	Ser	Asn		Arg	GLu	Met	Leu		Val	Leu	GLu	Ala			
	254	225					230					235					240		
	255		_		~ 7	_	_	_	_				~ 7			~ 7	a 1		
	256	Ala	Lys	Ala	СŢЙ	_	Pro	Leu	Leu	TTe		Ala	GLu	Asp	val		GТĀ		
	257					245					250					255			
	258																		

SEQUENCE VERIFICATION REPORT PATENT APPLICATION *US/09/001,737*

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